PCT

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 34104-0074		FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)						
International application No.		International filing date (day/mon	h/year) Prio	rity date (day/month/year)				
PCT/CA98/01137		08/12/1998		04/02/1998				
International C12N15/1	Patent Classification (IPC) or no I O	ational classification and IPC						
Applicant THE ONT	ARIO CANCER INSTITU	TE et al.						
· and is	transmitted to the applicant	according to Article 36.		onal Preliminary Examining Authority				
⊠ Th be (s	nis report is also accompanion amended and are the ba	sis for this report and/or sheets 607 of the Administrative Instruc	he description, cla containing rectific	nims and/or drawings which have ations made before this Authority CT).				
3. This re	eport contains indications rel	ating to the following items:						
П	☐ Priority							
III		restablishment of opinion with regard to novelty, inventive step and industrial applicability						
, IV V	Reasoned statement	easoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;						
VI	☐ Certain documents ci	explanations suporting such statement ments cited						
VII	☐ Certain defects in the	he international application						
VIII	☐ Certain observations of	on the international application						
Date of subr	mission of the demand	Date of	f completion of this r	eport				
23/08/199	99		0 2. 06. 00					
	nailing address of the internation examining authority: European Patent Office	al Author	ized officer	The state of the s				
<u>)</u>	D-80298 Munich Tel. +49 89 2399 - 0 Tx: 52365	Ury,	4	(E. 1) (E				

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/CA98/01137

I. B	asis	of t	the	re	port
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1. This report has been drawn on the basis of (substitute sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contain amendments.): Description, pages: as originally filed 1-34 Claims, No.: as originally filed 6 (part),7-26 13/05/2000 with letter of 04/05/2000 as received on 1-5,6 (part) Drawings, sheets: as originally filed 1/6-6/6 2. The amendments have resulted in the cancellation of: ☐ the description, pages: Nos.: ☐ the claims, sheets: ☐ the drawings, 3.

This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)):

see separate sheet

4. Additional observations, if necessary:

- V. Reasoned statement und r Article 35(2) with regard to nov Ity, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)

Yes:

Claims 4, 6, 14, 15, 18-25

No:

Claims 1-3, 5, 7-13, 16, 17, 26

Inventive step (IS)

Yes:

Claims 18-25

No:

Claims 1-17, 26

Industrial applicability (IA)

Yes:

Claims 1-16, 18-23, 26

Claims No:

- 2. Citations and explanations
 - see separate sheet

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

Item I.

The amendments filed with the letter dated 04.05.00 introduce subject-matter which extends beyond the content of the application as filed, contrary to Article 34(2)(b) PCT. The amendments concerned are the following:

- Claim 1, lines 1-3.

No basis for these amendments can be found in the application as filed.

Consequently, this report has been established as if said amendments had not been made (Rule 70.2(c) PCT), i.e. has been established on the basis of claims 1-26 as originally filed.

Item V.

Reference is made to the following documents:

D1: J. Bacteriol., 172(2), 1990, pp.653-8.

D2: J. Bacteriol., <u>173(3)</u>, 1991, pp.1151-60.

D3: Biotechniques, <u>17</u>(6), 1994, pp.1132-39.

D_A: Bray et al., Abstract no. 428.

D_R: Bray et al., Abstract no. 429.

I) 1) Document D1 discloses a method for identifying cytotoxic mutant proteins capable of binding to a target cell, comprising steps (A), (B) and (C) of claim 1.

The specific embodiments recited in dependent claims 2, 3, 5, 7-13 and 16 are also disclosed in D1.

The method of claim 17 is also described in D1.

Thus, D1 destroys the novelty of present claims 1-3, 5, 7-13 and 16-17 (Article 33.2 PCT).

- 2) D2 as well destroys the novelty of claims 1-3, 5, 7-13 and 16-17 (Article 33.2 PCT).
- The features of claims 4, 14, 15 and claim 6 (see e.g. document D3) are merely 11) straightforward possibilities from which the skilled person would select, in accord-





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ance with circumstances, without the exercise of inventive skill.

Therefore, the subject-matter of claims 4, 14, 15 and 6 lack an inventive step

(Article 33.3 PCT) in view of D1 or D2 combined with the skilled person's general knowledge and D3, respectively.

- III) Since said "suitable supports" are not defined in claim 26, the kit comprising said heteromeric protein toxin is anticipated by any disclosure of a heteromeric protein toxin. Claim 26 lacks novelty over *inter alia* D1 or D2.
- IV) For the assessment of the present claims 17, 24 and 25 on the question whether they are industrially applicable, no unified criteria exist in the PCT Contracting States. The patentability can also be dependent upon the formulation of the claims. The EPO, for example, does not recognize as industrially applicable the subject-matter of claims to the use of a compound in medical treatment, but may allow, however, claims to a known compound for first use in medical treatment and the use of such a compound for the manufacture of a medicament for a new medical treatment.
- V) This Report is based on the assumption that all claims enjoy priority rights from the filing date of the priority document. If it later turns out that this is not correct, the documents D_A and D_B cited in the international search report could become relevant.

Item VIII.

Claim 21 is not clear. It is directed to a method for constructing diagnostic probes for detecting the presence of a cell surface marker. Only step (A) is compulsory, steps (B) and (C) being optional. However, step (A) is not sufficient to perform the detection. At least step (C) should be performed. Thus, the word "optionally" renders the claim unclear (Article 6 PCT).